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<u>L69</u>	(l32 or l33) and (nanoemulsion nano-emulsion microemulsion micro-emulsion)	1	<u>L69</u>
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<u>L67</u>	clariant.as. and soybean	10	<u>L67</u>

<u>L66</u>	clariant.as. and soy	0	<u>L66</u>
<u>L65</u>	clariant.as. and soy.ab.	0	<u>L65</u>
<u>L64</u>	(silicone near3 polyoxyethylene near3 copolymer\$) and (cosmetic pharmaceu\$)	9	<u>L64</u>
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<u>L59</u>	L58 and (abil or (dimethyl adj copolyol))	0	<u>L59</u>
<u>L58</u>	(silicone adj4 water adj4 emulsion).ab. and cosmetic	10	<u>L58</u>
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<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L28</u>	retinoxy adj trimethylsilane	0	<u>L28</u>
<i>DB=JPAB,EPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L27</u>	retinoxy adj trimethylsilane	0	<u>L27</u>
<u>L26</u>	retinoxytrimethylsilane.ab.	0	<u>L26</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L25</u>	retinoxytrimethylsilane.ab.	0	<u>L25</u>
<u>L24</u>	L23 and retinoxytrimethylsilane	0	<u>L24</u>
<u>L23</u>	L16 and cosmetic and (nano\$) and dispers\$	5	<u>L23</u>
<u>L22</u>	L16 and cosmetic and (nano\$)	6	<u>L22</u>
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<u>L18</u>	L16 and nano\$	6	<u>L18</u>
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<u>L8</u>	(trimethylsilyl\$ near10 (aliphatic or fatty) near10 alcohol) and cosmetic	9	<u>L8</u>
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<u>L6</u>	(trimethylsilyl\$ near10 derivative\$ near10 (aliphatic or fatty)) and emulsion and cosmetic	1	<u>L6</u>
<u>L5</u>	trimethylsilyl\$ and emulsion and cosmetic	606	<u>L5</u>
<u>L4</u>	trimethylsilyl\$	24170	<u>L4</u>
<i>DB=JPAB,EPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L3</u>	alkoxytrimethylsilane	2	<u>L3</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L2</u>	alkoxytrimethylsilane	5	<u>L2</u>
<u>L1</u>	alkoxytrimethylsilane	0	<u>L1</u>

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Jul 7, 1994

DERWENT-ACC-NO: 1994-234292
DERWENT-WEEK: 199428
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TITLE: Sprayable viscous gel-type hair conditioning prods. - comprising alkyl poly:ol, water soluble or emulsifiable silicone based cpd. and hair conditioning ingredients

INVENTOR: FERULLO, T; SCHULTZ, T M ; WONG, S

PATENT-ASSIGNEE:

ASSIGNEE

SHISEIDO CO LTD

CODE

SHIS

PRIORITY-DATA: 1992WO-US10036 (December 21, 1992).

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9414404 A1	July 7, 1994	E	027	A61K007/075

DESIGNATED-STATES: KR AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE

CITED-DOCUMENTS:US 3246850; US 3724763 ; US 4563347 ; US 4591076 ; US 4749732 ; US 4838490

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9414404A1	December 21, 1992	1992WO-US10036	

INT-CL (IPC): A61K 7/075; A61K 7/11; B65D 83/00

ABSTRACTED-PUB-NO: WO 9414404A

BASIC-ABSTRACT:

A viscous gel-type hair conditioning prod. comprises a gel base compsn. incorporating: (a) hair conditioning ingredients; (b) an alkyl polyol having a carbon content of 2-8 and a hydroxyl ion content of 2-7; and (c) a water soluble or emulsifiable silicone based cpd. The prod. is capable of being dispersed through small diametered orifices of a pump delivery system and producing a liquefied mist spray. Also claimed are a prod. delivery system and a process for manufacturing the hair conditioning gel.

A sprayable hair conditioning gel comprises: 0.10-10 wt.% of an alkyl polyol selected from glycerin, propylene glycol, sorbitol, hydrogenated starch hydrolysate, 1,3-butylene glycol and diethylene glycol; 0.02-5 wt.%, pref. 0.02-1.5 wt.% of a water soluble or emulsifiable silicone based cpd. selected from amodimethicone, dimethicone, dimethicon copolyol, stearoxytrimethylsilane and stearoxy dimethicone; 2-10 wt.% hair conditioning ingredients; and deionised water to balance.

ADVANTAGE - The prod. is easily dispensed and can be quickly and easily rubbed into the hair. Unlike prior art gel conditioners the prod. can be dispensed through small diameter orifices without clogging.

and 0.125% SILWET.RTM. L-7280 TSA were prepared. The foaming and spreading properties of these mixtures are shown in Table 5 & 6. Also included in Table 1 are aqueous mixtures containing 0.5%, 0.25% and 0.125% SILWET.RTM. L-7280 TSA as controls to demonstrate the benefits of this invention.

Detailed Description Paragraph Left (10):

SILWET.RTM. L-7500 Copolymer is a silicone polyether copolymer having 3,000 molecular weight and contains only propylene oxide (PO). SILWET.RTM. L-7600 Copolymer is a silicone polyether copolymer having 4,000 molecular weight and contains only ethylene oxide (EO).